



## SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:  
EP 20 88 68 13

**Classification of the application (IPC):**  
F16C 33/16, F16C 33/24, F16J 15/34

**Technical fields searched (IPC):**  
F16C

DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
X	JP 2019015309 A (EAGLE IND CO LTD) 31 January 2019 (2019-01-31) * paragraph [0015] - paragraph [0016]; figure 1 *	1-3, 5, 7, 8
X	CN 110296149 A (ZHEJIANG ZHONGDA PREC PARTS CO LTD) 01 October 2019 (2019-10-01) * paragraph [0012]; claims 8, 14; figure 1 *	1-4, 6-8
X	JP 2010223288 A (TOYOTA CENTRAL RES & DEV; TOYOTA MOTOR CORP) 07 October 2010 (2010-10-07) * paragraph [0040]; claim 2; figures 2, 15 * * paragraph [0049] * * paragraph [0075] *	1-6, 8

The supplementary search report has been based on the last set of claims valid and available at the start of the search.

Place of search The Hague	Date of completion of the search 08 December 2023	Examiner Vesselinov, Vladimir
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### CATEGORY OF CITED DOCUMENTS

X: particularly relevant if taken alone	P: intermediate document
Y: particularly relevant if combined with another document of the same category	T: theory or principle underlying the invention
A: technological background	E: earlier patent document, but published on, or after the filing date
O: non-written disclosure	D: document cited in the application
& : member of the same patent family, corresponding document	L: document cited for other reasons

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## ANNEX TO SUPPLEMENTARY EUROPEAN SEARCH REPORT

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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on 08-12-2023  
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Patent document cited in search report		Publication date	Patent family member(s)		Publication date
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